

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A gear shifting cassette unit for shifting of gears in a change gear transmission, the transmission comprising at least two shift rails

the cassette unit including:

a cassette housing comprising bearing means for movably supporting at least one shift element for engaging and moving the shift rails and a coupling for connecting the shift element to a shift finger; and

mounting means for fixedly securing the cassette housing on a transmission housing in a position where the at least one shift element can be moved to selectively engage connecting members of the shift rails;

wherein the bearing means comprises a traversing member located in the cassette housing and movable in a first orthogonal direction for selecting a shift rail, and a carrier member supported by the traversing member and moveable in a linear second orthogonal direction for axially moving a selected one of the shift rails and being provided with the at least one shift element at one side thereof, the carrier member being provided with ~~[[a]] the~~ coupling for connecting the ~~carrier member~~ at least one shift element to ~~[[a]]the~~ shift finger in the first orthogonal direction and the second orthogonal direction;

wherein the at least one shift element is moveable in both of the first orthogonal direction and the second orthogonal direction.

2. (Canceled).

3. (Previously presented) The gear shifting cassette unit according to claim 1, wherein the housing of the cassette comprises, as the mounting means, a flange which is to be clamped between a surface surrounding an opening of the transmission housing and a housing of an actuation unit for moving the shift finger in the first orthogonal direction and the second orthogonal direction.

4. (Previously presented) The gear shifting cassette unit according to claim 1 wherein the shift element protrudes through an opening provided in the cassette housing for engaging the shift rails.
5. (Canceled).
6. (Canceled).
7. (Previously presented) The gear shifting cassette unit according to claim 1 wherein the traversing member comprises two opposite guiding surfaces which are in sliding engagement with inner surfaces of the casing facing each other.
8. (Currently amended) The gear shifting cassette unit according to claim 7, wherein the traversing member comprises an oblong opening with the carrier member located therein and movable in the second orthogonal direction.
9. (Previously presented) The gear shifting cassette unit according to claim 8, wherein a biasing device is associated with the traversing member.
10. (Previously presented) The gear shifting cassette unit according to claim 9, wherein the biasing device comprises at least one spring means urging the traversing member into a desired position.
11. (Original) The gear shifting cassette unit according to claim 10, wherein the spring means is a compression spring.
12. (Previously presented) The gear shifting cassette unit according to claim 11, wherein the traversing member comprises a shaft extending in the first orthogonal direction and carrying the compression spring.

13. (Previously presented) The gear shifting cassette unit according to claim 12, wherein the compression spring is clamped between two pressure disks located on the shaft between respective stop means.
14. (Previously presented) The gear shifting cassette unit according to claim 13, wherein the casing of the cassette comprises two abutment means for the spring means limiting the travel of the spring means in opposite directions.
15. (Previously presented) The gear shifting cassette unit according to claim 1, wherein a travel path limiting element is associated with the traversing member.
16. (Previously presented) The gear shifting cassette unit according to claim 12, wherein a travel path limiting element is associated with the traversing member, and wherein the travel path limiting element is a sleeve located on the shaft.
17. (Previously presented) The gear shifting cassette unit according to claim 7, wherein the traversing member comprises a blocking member for enabling the shift rail selected by the carrier member to move in the second orthogonal direction and for blocking all other shift rails in their neutral position.
18. (Previously presented) The gear shifting cassette unit according to claim 17, wherein the blocking member extends in the first orthogonal direction and engages the shift rails for blocking them in the second orthogonal direction, and wherein the blocking member comprises at least one cutout for unblocking the shift rail that is in registration with the cutout.
19. (Previously presented) The gear shifting cassette unit according to claim 17, wherein the casing comprises a slit-like opening and the blocking member is extending therethrough.

20. (Previously presented) The gear shifting cassette unit according to claim 17, wherein the blocking member is a one piece unit with the traversing member.
21. (Previously presented) The gear shifting cassette unit according to claim 1, wherein two shift elements having the shape of tongues are provided which extend into shift rail connecting members and being spaced apart in the first orthogonal direction.
22. (Previously presented) The gear shifting cassette unit according to claim 21, wherein the distance is provided between the tongues, which distance is greater than the width of the connecting member in the first orthogonal direction.
23. (Previously presented) The gear shifting cassette unit assembly according to claim 21, wherein the transmission comprises at least three shift rails, two of them arranged in close distance so that, if one tongue is in regular registration with the connecting element of the selected shift rail, the other connecting element remains within the void between the tongues.
24. (Previously presented) The gear shifting cassette unit according to claim 23, wherein two of the shift rails are arranged in far distance so that, if one tongue is in regular registration with the connecting element of a selected shift rail, the other tongue is not in registration with the connecting element of the other shift rail.
25. (Previously presented) The gear shifting cassette unit according to claim 1, wherein the housing of the cassette has an outer shape that fits into an opening of the transmission.
26. (Canceled).
27. (Currently Amended) A transmission having a gear shifting assembly including a gear shifting cassette unit and a gear shifting mechanism for shifting of gears in the transmission comprising a transmission housing,

said shifting mechanism comprising an actuation unit having a actuation unit housing to be mounted on the transmission housing, said actuation unit comprising a shift finger movable in an axial direction for axially moving a selected one of the shift rails in a linear direction and in a first orthogonal direction for selecting a shift rail, the axial direction generally perpendicular to the first orthogonal direction,

the gear shifting assembly including:

a cassette housing having mounting means for fixedly securing the housing on the transmission housing in a position where ~~[[the]]~~ a shift elements ~~can be~~ is moved in the axial direction and the first orthogonal direction to selectively engage the connecting members of the shift rails,

a traversing member located on the cassette housing and movable in the first orthogonal direction,

the carrier member being supported by the traversing member and movable in the axial direction and being provided with the shift elements at one side thereof protruding through an opening provided in the cassette housing and engaging with a shift rail connecting member, the carrier member being provided with a coupling for connecting the carrier member to the shift finger in the first orthogonal direction and the axial direction.

28. (Canceled).

29 (Currently amended) The gear shifting cassette unit according to claim 1, wherein neither the traversing member nor the carrier member rotate to move the shift ~~[[finger]]~~ element.

30. (Currently amended) The transmission according to claim 27, wherein neither the traversing member nor the carrier member rotate to move the shift ~~[[finger]]~~ element.